SEQUENCE LISTING Man Server and Technology Agency <110> Royal Jelly Peptide <120> <130> 04F039PCT JP 2003-338665 2003-09-29 <150> <151> <160> 17 <170> PatentIn version 3.1 <210> 37 <211> <212> DNA <213> Artificial Sequence <220> <223> Primer 1 <220> <221> <222> <223> misc_feature (1)..(37) <400> 37 aaracnwsna thwsngtnaa rggngarwsn aaygtng <210> <211> 29 <212> DNA <213> Artificial Sequence <220> <223> Primer 2 <400> 2 29 cgttggcacc agacacgata gatgaaacc <210> 29 <211> <212> DNA <213> Artificial Sequence <220> <223> Primer 3 <400> 3 29 tttctgaatt ttattaatta ctttattcg <210> <211> 50 <212> DNA <213> Artificial Sequence <220> <223> Fragment 1

<400> aaaacc	4 tcta tctctgttaa aggcgaatcc aacgttgatg ttgtttccca	50
<210> <211> <212> <213>	5 40 DNA Artificial Sequence	
<220> <223>	Fragment 2	
<400> gatcaa	5 ctct ctggtttctt ctatcgtttc tggtgctaac	40
<210> <211> <212> <213>	6 40 DNA Artificial Sequence	
<220> <223>	Fragment 3	
<400> gtttct	6 gcag tactgctggc tcagactctg gttaacatcc	40
<210> <211> <212> <213>		
<220> <223>	Fragment 4	
<400> tgcaga	7 tcct gatcgacgct aacgttttcg cttaatag	38
	8 40 DNA Artificial Sequence	
<220> <223>	Fragment 5	
<400> ttttgg	8 agat agagacaatt tccgcttagg ttgcaactac	40
<210> <211> <212> <213>	9 40 DNA Artificial Sequence	
<220> <223>	Fragment 6	
<400> aacaaa	9 gggt ctagttgaga gaccaaagaa gatagcaaag	40

```
<210> 10
<211> 40
<212> DNA
<213> Artificial Sequence
<220>
<223> Fragment 7
<400> 10
                                                                       40
accacgattg caaagacgtc atgacgaccg agtctgagac
<210> 11
<211> 48
<212> DNA
<213> Artificial Sequence
<220>
<223> Fragment 8
<400>
caattgtagg acgtctagga ctagctgcga ttgcaaaagc gaattatc
                                                                       48
<210>
<211>
      12
      31
<212> DNA
<213> Artificial Sequence
<220>
<223> LIC Forward
<400> 12
                                                                       31
ggtattgagg gtcgcaaaac ctctatctct g
<210> 13
<211> 33
<212> DNA
<213> Artificial Sequence
<220>
<223> LIC Reverse
<400> 13
                                                                       33
agaggagat tagagcccta ttaagcgaaa acg
<210> 14
<211>
      162
<212>
<213>
      DNA
      bee
<220>
<221> misc_feature
<222> (1)..(162)
<223> unknown
<220>
<221> CDS
<222>
      (1)..(162)
<223>
```

Page 3

```
aaa aca tca atc agt gtc aaa ggc gaa tcg aac gtg gat gtc gtt tcc
Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser
1 10 15
                                                                                                  48
caa atc aac agt ttg gtt tca tct atc gtg tct ggt gcc aac gtg tca Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser 20 25 30
                                                                                                  96
                                                                                                144
gca gta ctc cta gct caa act tta gtt aat atc ctg caa att nnn atc
Ăla Val Leu Leu Ăla Gln Thr Leu Val Asn Ile Leu Gln Ile Xaa Ile
           35
                                                                                                162
gac gct aat gtt ttc gct
Asp Ala Asn Val Phe Ala
     50
<210> 15
<211>
         54
<212> PRT
<213>
         bee
<220>
<221>
<222>
         misc_feature
         (47)..(47)
The 'Xaa' at location 47 stands for Lys, Asn, Arg, Ser, Thr, Ile, Met, Xaa, Glu, Asp, Gly, Ala, Val, Gln, His, Pro, Leu, Tyr, Trp,
<223>
           Cys, or Phe.
<400> 15
Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser
Gln Ile Asn Ser Leu Val Ser Ser Ile Val Ser Gly Ala Asn Val Ser
Ala Val Leu Leu Ala Gln Thr Leu Val Asn Ile Leu Gln Ile Xaa Ile
Asp Ala Asn Val Phe Ala
     50
<210>
         16
<211>
         162
         DNA
<212>
<213>
         bee
<220>
<221>
         CDS
<222>
         (1)..(162)
<223>
<400> 16
aaa aca tca atc agt gtc aaa ggc gaa tcg aac gtg gat gtc gtt tcc
Lys Thr Ser Ile Ser Val Lys Gly Glu Ser Asn Val Asp Val Val Ser
1 5 10 15
                                                                                                 48
```

caa Gln	atc Ile	aac Asn	agt Ser 20	ttg Leu	gtt Val	tca Ser	tct Ser	atc Ile 25	gtg Val	tct Ser	ggt Gly	gcc Ala	aac Asn 30	gtg val	tca Ser	96
gca Ala	gta Val	ctc Leu 35	cta Leu	gct Ala	caa Gln	act Thr	tta Leu 40	gtt Val	aat Asn	atc Ile	ctg Leu	caa Gln 45	att Ile	ctt Leu	atc Ile	144
	gct Ala 50															162
<210 <211 <211 <213	L> 5 2> F	L7 54 PRT Dee							·							
<400> 17																
Lys 1	Thr	Ser	Ile	Ser 5	val	Lys	Gly	Glu	Ser 10	Asn	val	Asp	val	val 15	Ser	
Gln	Ile	Asn	Ser 20	Leu	Val	Ser	Ser	11e 25	val	Ser	Gly	Ala	Asn 30	val	Ser	
Ala	val	Leu 35	Leu	Ala	G1n	Thr	Leu 40	Val	Asn	Ile	Leu	G]n 45	Ile	Leu	Ile	
Asp	Ala	Asn	۷a٦	Phe	Ala											